



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

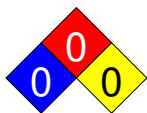
1 Identification

- **Product identifier**
- **Trade name:** Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385
- **Application of the substance / the mixture** Brazing alloy
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Stannol GmbH & Co. KG
Haberstrasse 24
D-42551 Velbert

+49 (0) 2051 3120 332
sdb@stannol.de
- **Information department:** Product Safety Department
- **Emergency telephone number:**
8:00 am - 5:00 pm (CET) +49 (0) 2051 3120 332

+1 (307) 899 3845

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)
US



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

(Contd. of page 1)

· Dangerous components:

CAS: 7440-31-5 tin
EINECS: 231-141-8
CAS: 7440-22-4 silver
EINECS: 231-131-3
CAS: 7440-50-8 Copper, solid
EINECS: 231-159-6

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
- **PAC-1:**
CAS: 7440-31-5 tin

6 mg/m³
(Contd. on page 3)
US



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

CAS: 7440-22-4 silver

(Contd. of page 2)
0.3 mg/m³

CAS: 7440-50-8 Copper, solid

3 mg/m³**· PAC-2:**

CAS: 7440-31-5 tin

67 mg/m³

CAS: 7440-22-4 silver

170 mg/m³

CAS: 7440-50-8 Copper, solid

33 mg/m³**· PAC-3:**

CAS: 7440-31-5 tin

400 mg/m³

CAS: 7440-22-4 silver

990 mg/m³

CAS: 7440-50-8 Copper, solid

200 mg/m³

7 Handling and storage

· Handling:**· Precautions for safe handling** No special measures required.**· Information about protection against explosions and fires:** No special measures required.**· Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:** No special requirements.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:** None.**· Storage class:** 11**· Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.**· Control parameters****· Components with limit values that require monitoring at the workplace:****CAS: 7440-31-5 tin**PEL (USA) Long-term value: 2 mg/m³
metalREL (USA) Long-term value: 2 mg/m³TLV (USA) Long-term value: 2* mg/m³
metal, *inh. fraction**CAS: 7440-22-4 silver**PEL (USA) Long-term value: 0.01 mg/m³REL (USA) Long-term value: 0.01 mg/m³TLV (USA) Long-term value: 0.1 mg/m³
metal: dust and fume



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

(Contd. of page 3)

IOELV (EU) Long-term value: 0.1 mg/m³**CAS: 7440-50-8 Copper, solid**PEL (USA) Long-term value: 1* 0.1** mg/m³
as Cu *dusts and mists **fumeREL (USA) Long-term value: 1* 0.1** mg/m³
as Cu *dusts and mists **fumeTLV (USA) Long-term value: 1* 0.2** mg/m³
*dusts and mists; **fume; as Cu

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter P2

· **Protection of hands:**



Protective gloves

Leather gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Leather gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

US

(Contd. on page 5)



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid
Color: Silver-colored
Odor: Odorless
Odor threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Decomposition temperature: Not determined.

· Ignition temperature: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.

· Vapor pressure: Not applicable.

· Density: Not determined.

· Relative density: Not determined.

· Vapor density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable.
Kinematic: Not applicable.

· Solvent content:

VOC content: 0.00 %

Solids content: 100.0 %

· Other information: No further relevant information available.



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

(Contd. of page 5)

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 7)
US



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

(Contd. of page 6)

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- **UN-Number**
- **DOT, ADN, IMDG, IATA** not regulated
- **UN proper shipping name**
- **DOT, ADN, IMDG, IATA** not regulated
- **Transport hazard class(es)**
- **DOT, ADN, IMDG, IATA**
- **Class** not regulated
- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**
CAS: 7440-22-4 silver

(Contd. on page 8)
US



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

(Contd. of page 7)

CAS: 7440-50-8 Copper, solid

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65**· Chemicals known to cause cancer:**

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

CAS: 7440-22-4 silver

D

CAS: 7440-50-8 Copper, solid

D

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void**· Hazard pictograms** Void**· Signal word** Void**· Hazard statements** Void**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product Safety Department**· Contact:** Hr. Dörr**· Date of preparation / last revision** 03/28/2023**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

(Contd. on page 9)

US



Safety Data Sheet acc. to OSHA HCS

Printing date 03/28/2023

Reviewed on 03/28/2023

Trade name: Loetlegierung Ecoloy TSC
Loetlegierung Ecoloy TSC0307
Loetlegierung Ecoloy TSC0307R
Loetlegierung Ecoloy TSC0807
Loetlegierung Ecoloy TSC263
Loetlegierung Ecoloy TSC305
Loetlegierung Ecoloy TSC305B
Loetlegierung Ecoloy TSC305BO
Loetlegierung Ecoloy TSC355
Loetlegierung Ecoloy TSC357Z
Loetlegierung Ecoloy TSC384
Loetlegierung Ecoloy TSC385

VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

(Contd. of page 8)

US